

PCT09

RAW SEQUENCE LISTING

DATE: 10/04/2001

PATENT APPLICATION: US/09/936,885

TIME: 10:33:46

Input Set : A:\60993.app

Output Set: N:\CRF3\10042001\I936885.raw

3 <110> APPLICANT: Misra and Kay
 5 <120> TITLE OF INVENTION: Transgenic Plants that are Resistant to a Broad Spectrum
 6 of Pathogens
 8 <130> FILE REFERENCE: 60993
 C--> 10 <140> CURRENT APPLICATION NUMBER: US/09/936,885
 C--> 11 <141> CURRENT FILING DATE: 2001-09-17
 13 <150> PRIOR APPLICATION NUMBER: 60/125,072
 14 <151> PRIOR FILING DATE: 1999-03-17
 16 <150> PRIOR APPLICATION NUMBER: PCT/CA00/00288
 17 <151> PRIOR FILING DATE: 2000-03-16
 20 <160> NUMBER OF SEQ ID NOS: 41
 22 <170> SOFTWARE: PatentIn Ver. 2.0
 24 <210> SEQ ID NO: 1
 25 <211> LENGTH: 443
 26 <212> TYPE: DNA
 27 <213> ORGANISM: Phyllomedusa bicolor
 29 <220> FEATURE:
 30 <221> NAME/KEY: CDS
 31 <222> LOCATION: (58)..(294)
 33 <400> SEQUENCE: 1
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 36 atg gat atc ctg aag aaa tct ctt ttc ctt gta tta ttc ctt gga ttg 105
 37 Met Asp Ile Leu Lys Lys Ser Leu Phe Leu Val Leu Phe Leu Gly Leu
 38 1 5 10 15
 40 gtt tcc ctt tcc atc tgt gaa gaa gag aaa aga gaa aat gaa gat gag 153
 41 Val Ser Leu Ser Ile Cys Glu Glu Glu Lys Arg Glu Asn Glu Asp Glu
 42 20 25 30
 44 gag aaa caa gat gac gag caa agt gaa atg aag aga gct atg tgg aaa 201
 45 Glu Lys Gln Asp Asp Glu Gln Ser Glu Met Lys Arg Ala Met Trp Lys
 46 35 40 45
 48 gat gtg tta aaa aaa ata gga aca gtg gcc tta cat gca gga aaa gcg 249
 49 Asp Val Leu Lys Lys Ile Gly Thr Val Ala Leu His Ala Gly Lys Ala
 50 50 55 60
 52 gct tta ggt gca gtt gct gat aca ata agt caa gga gag caa taa 294
 53 Ala Leu Gly Ala Val Ala Asp Thr Ile Ser Gln Gly Glu Gln
 54 65 70 75
 56 agtgaaaaaa attttaaatt gaattactct aaatagaaca attagcaata attgtgtcaa 354
 58 acctacatta aagcatactg aaccataaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 414
 60 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 443
 63 <210> SEQ ID NO: 2
 64 <211> LENGTH: 78
 65 <212> TYPE: PRT
 66 <213> ORGANISM: Phyllomedusa bicolor
 68 <400> SEQUENCE: 2
 69 Met Asp Ile Leu Lys Lys Ser Leu Phe Leu Val Leu Phe Leu Gly Leu
 70 1 5 10 15
 72 Val Ser Leu Ser Ile Cys Glu Glu Glu Lys Arg Glu Asn Glu Asp Glu

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73          20          25          30
75 Glu Lys Gln Asp Asp Glu Gln Ser Glu Met Lys Arg Ala Met Trp Lys
76          35          40          45
78 Asp Val Leu Lys Lys Ile Gly Thr Val Ala Leu His Ala Gly Lys Ala
79          50          55          60
81 Ala Leu Gly Ala Val Ala Asp Thr Ile Ser Gln Gly Glu Gln
82 65          70          75
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86 <211> LENGTH: 27
87 <212> TYPE: PRT
88 <213> ORGANISM: Phyllomedusa bicolor
90 <400> SEQUENCE: 3
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92 1          5          10          15
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99 <211> LENGTH: 31
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101 <213> ORGANISM: Phyllomedusa bicolor
103 <400> SEQUENCE: 4
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105 1          5          10          15
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108          20          25          30
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113 <212> TYPE: PRT
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116 <400> SEQUENCE: 5
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121          20          25          30
123 Leu Gly Glu Gln
124          35
127 <210> SEQ ID NO: 6
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129 <212> TYPE: PRT
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137          20          25          30
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141 <211> LENGTH: 35
142 <212> TYPE: PRT
143 <213> ORGANISM: Agalychnis annae

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146 Gly Met Trp Ser Thr Ile Arg Asn Val Gly Lys Ser Ala Ala Lys Ala
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153           35
156 <210> SEQ ID NO: 8
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159 <213> ORGANISM: Agalychnis annae
161 <400> SEQUENCE: 8
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175 Ser Leu Trp Ser Lys Ile Lys Glu Met Ala Ala Thr Ala Gly Lys Ala
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183 <211> LENGTH: 34
184 <212> TYPE: PRT
185 <213> ORGANISM: Phyllomedusa sauvagei
187 <400> SEQUENCE: 10
188 Ala Leu Trp Lys Thr Met Leu Lys Lys Leu Gly Thr Met Ala Leu His
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192           20           25           30
194 Thr Gln
198 <210> SEQ ID NO: 11
199 <211> LENGTH: 34
200 <212> TYPE: PRT
201 <213> ORGANISM: Phyllomedusa sauvagei
203 <400> SEQUENCE: 11
204 Ala Leu Trp Phe Thr Met Leu Lys Lys Leu Gly Thr Met Ala Leu His
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208           20           25           30
210 Thr Gln
214 <210> SEQ ID NO: 12
215 <211> LENGTH: 30
216 <212> TYPE: PRT
217 <213> ORGANISM: Phyllomedusa sauvagei

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219 <400> SEQUENCE: 12
220 Ala Leu Trp Lys Asn Met Leu Lys Gly Ile Gly Lys Leu Ala Gly Lys
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224           20           25           30
227 <210> SEQ ID NO: 13
228 <211> LENGTH: 27
229 <212> TYPE: PRT
230 <213> ORGANISM: Phyllomedusa sauvagei
232 <400> SEQUENCE: 13
233 Ala Leu Trp Met Thr Leu Leu Lys Lys Val Leu Lys Ala Ala Ala Lys
234   1           5           10           15
236 Ala Leu Asn Ala Val Leu Val Gly Ala Asn Ala
237           20           25
240 <210> SEQ ID NO: 14
241 <211> LENGTH: 29
242 <212> TYPE: PRT
243 <213> ORGANISM: Phyllomedusa sauvagei
245 <400> SEQUENCE: 14
246 Gly Leu Trp Ser Lys Ile Lys Thr Ala Gly Lys Ser Val Ala Lys Ala
247   1           5           10           15
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250           20           25
253 <210> SEQ ID NO: 15
254 <211> LENGTH: 329
255 <212> TYPE: DNA
256 <213> ORGANISM: Rana temporaria
258 <220> FEATURE:
259 <221> NAME/KEY: CDS
260 <222> LOCATION: (53)..(238)
262 <400> SEQUENCE: 15
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264                                     Met Phe
265                                     1
267 acc ttg aag aaa tcc ctc tta ctc ctt ttc ttc ctt ggg acc atc aac 106
268 Thr Leu Lys Lys Ser Leu Leu Leu Leu Phe Phe Leu Gly Thr Ile Asn
269   5           10           15
271 tta tct ctc tgt gag gaa gag aga gat gcc gat gaa gaa aga aga gat 154
272 Leu Ser Leu Cys Glu Glu Glu Arg Asp Ala Asp Glu Glu Arg Arg Asp
273   20           25           30
275 gat ctc gaa gaa agg gat gtt gaa gtg gaa aag cga ttt ttt cca gtg 202
276 Asp Leu Glu Glu Arg Asp Val Glu Val Glu Lys Arg Phe Phe Pro Val
277 35           40           45           50
279 att gga agg ata ctc aat ggt att ttg gga aaa taa ccaaaaaaag 248
280 Ile Gly Arg Ile Leu Asn Gly Ile Leu Gly Lys
281           55           60
283 ttaaaacttt ggaaatggaa ttggaaatca tctaattgtg aatgtcattt agctaaatgc 308
285 acatcaaatg tcttataaaa a 329
288 <210> SEQ ID NO: 16

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289 <211> LENGTH: 61
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291 <213> ORGANISM: Rana temporaria
293 <400> SEQUENCE: 16
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295   1           5           10           15
297 Ile Asn Leu Ser Leu Cys Glu Glu Glu Arg Asp Ala Asp Glu Glu Arg
298           20           25           30
300 Arg Asp Asp Leu Glu Glu Arg Asp Val Glu Val Glu Lys Arg Phe Phe
301           35           40           45
303 Pro Val Ile Gly Arg Ile Leu Asn Gly Ile Leu Gly Lys
304   50           55           60
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318 <211> LENGTH: 13
319 <212> TYPE: PRT
320 <213> ORGANISM: Rana temporaria
322 <400> SEQUENCE: 18
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328 <211> LENGTH: 13
329 <212> TYPE: PRT
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338 <211> LENGTH: 13
339 <212> TYPE: PRT
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347 <210> SEQ ID NO: 21
348 <211> LENGTH: 13
349 <212> TYPE: PRT
350 <213> ORGANISM: Rana temporaria
352 <400> SEQUENCE: 21
353 Leu Leu Pro Ile Val Gly Asn Leu Leu Asn Ser Leu Leu
354   1           5           10
357 <210> SEQ ID NO: 22
358 <211> LENGTH: 13

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VERIFICATION SUMMARY

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L:10 M:270 C: Current Application Number differs, Replaced Application Number

L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date